

NTP SERVER



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VCL-2156-NTP



VCL-2145-D



VCL-2424-D



VCL-3048



Type	NTP - PTP server PRC clock	NTP - PTP server PRC clock SSU	Ruggedized NTP & PTP server	Ruggedized NTP & IRIG-B server
Inputs	GPS	2x GPS 10 MHz 2.048 MHz / Mbps	GPS	GPS
Outputs	4x NTP 2x IRIG-B NMEA 1PPS 1PPM / 1PPH 1/5/10 MHz 2.048 MHz	4x NTP 1x PTP 6x IRIG-B NMEA 1PPS / PPM 1/5/10 MHz 8x 2.048 Mbps 8x 2.048 MHz	1x NTP 1x PTP NMEA 1PPS 10 MHz 2.048 MHz	1x NTP 2x IRIG-B
Oscillator	OCXO	OCXO Rubidium	OCXO	TCXO
Power supply	2x 48 Vdc or 110-230 Vac	2x 48 Vdc or 110-230 Vac	24 / 48 Vdc	24/48 Vdc
Format	1U / 19"	2U / 19"	DIN	DIN
Size WxDxH mm	480x225x44	480x225x85	192x177x77	192x177x77



PTP SERVER



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Type	NTP - PTP server PRC clock	NTP - PTP server PRC clock SSU	Ruggedized NTP & PTP server	PTP Slave clock	PTP Slave clock	PTP Transparent Clock PTP Aware Ethernet Switch
Inputs	GPS	2x GPS 10 MHz 2.048 MHz / Mbps	GPS	PTP	PTP	Ethernet, PTP
Outputs	4x NTP 2x IRIG-B NMEA 1PPS 1PPM / 1PPH 1/5/10 MHz 2.048 MHz	4x NTP 1x PTP 6x IRIG-B NMEA 1PPS / PPM 1/5/10 MHz 8x 2.048 Mbps 8x 2.048 MHz	1x NTP 1x PTP NMEA 1PPS 10 MHz 2.048 MHz	2x IRIG-B NMEA 1PPS 10MHz 2.048 MHz 2.048 Mbps	4x IRIG-B 4x NMEA 4x 1PPS	Ethernet, PTP
Oscillator	OCXO	OCXO Rubidium	OCXO	OCXO	TCXO	NA
Power supply	2x 48 Vdc or 110-230 Vac	2x 48 Vdc or 110-230 Vac	24 or 48 Vdc	2x 48 Vdc or 110-230 Vac	24 or 48 Vdc	24 - 48 Vdc
Format	1U / 19"	2U / 19"	DIN	1U / 19"	DIN	Compact
Size WxDxH mm	480x225x44	480x225x85	192x177x77	480x280x44	192x177x77	168x134x41



IRIG-B Timing



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Type	Ruggedized NTP & IRIG-B server	IRIG-B Time server	IRIG-B Time converter	PTP Slave clock	IRIG-B Time server
Inputs	GPS	GPS	NTP	PTP	GPS
Outputs	1x NTP 2x IRIG-B	3x IRIG-B 1PPS	4x IRIG-B	4x IRIG-B 4x NMEA 4x 1PPS	up-to 16x IRIG-B up-to 16x 1PPS
Oscillator	TCXO	TCXO	TCXO	OCXO	TCXO
Power supply	24-48 Vdc	12-48 Vdc	24-48 Vdc	24 or 48 Vdc	24Vdc or 48Vdc or 230Vac
Format	DIN	Compact	DIN	DIN	2U / 19"
Size WxDxH mm	192x177x77	168x81x42	192x172x74	192x177x77	480x250x44



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Type	NTP - PTP server PRC clock SSU	SSU PRC clock NTP - PTP server
Inputs	2x GPS 10 MHz 2.048 MHz / Mbps	2x GPS modular & redundant 10 MHz 2.048 MHz / Mbps
Outputs	4x NTP 1x PTP 6x IRIG-B NMEA 1PPS / PPM 1/5/10 MHz 8x 2.048 Mbps 8x 2.048 MHz	8x modular, redundant and 1+1 cards 8x E1/T1 1:1 protection option PTP Grand Master NTP server, 4x GE ports Sync-e 10 MHz 1 PPS NMEA 0183
Oscillator	OCXO Rubidium	2x modular & redundant cards OCXO Rubidium
Power supply	2x 48 Vdc or 110-230 Vac	2x modular & redundant cards 2x 48 Vdc or 110-230 Vac
Format	2U / 19"	6U / 19" Modular & Redundant
Size WxDxH mm	480x225x85	480x280x266

CVL-2145-LC : PRC, NTP, SSU
CVL-2145-D : PRC, NTP & PTP, SSU

Synchronization inputs
 GPS
 1x 10MHz
 1x 2.048 Mbps
 1x 2.048 MHz



Synchronization outputs
 NTP, PTP
 6x IRIG-B, 1x NMEA
 1xPPS, 1x 1/5/10 MHz
 8x 2.028 MHz
 8x 2,048 Mbps E1